

SANDOWN-SHANKLIN

(ISLE OF WIGHT)

URBAN DISTRICT



# Annual Report

of the

Medical Officer of Health,

Including the REPORT

of the

Sanitary Inspector,

1938.



# Sandown-Shanklin (Isle of Wight) Urban District Council.

**1938.**

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**Chairman:**

MR. F. YELF, J.P.

**Vice-Chairman:**

MR. W. H. BROWN.

**Members of the Council:**

MR. H. BROWN,

MR. S. B. GOULD, C.C.

MR. B. H. COX,

MR. J. E. KENT,

MR. W. E. HARDS,

MR. WALTER RUSSELL,

MR. G. A. CRADDOCK,

MAJ. D. W. MOSS, D.S.O., M.C.,

MR. E. W. RODD,

MR. A. J. HARMAN, C.C.,

MR. I. D. HOOPER,

MR. B. J. KEMP,

MR. C. W. THOMAS,

MR. F. WHITE.

**Clerk:**

HAROLD BAKER.

**Accountant:**

G. GARDINER.

**Medical Officer of Health:**

HAYWARD CARPENTER, M.B., B.S., D.P.H. (Lond.), M.R.C.S.,  
L.R.C.P.

**Sanitary Inspector:**

HENRY K. BRIDGMAN, M.R.S.I.

**General Surveyor:**


T. JOSEY.

**Highways Surveyor and Water Engineer,**

P. G. COCKS, M.I. Mun. and Cy. E.

**Water Engineer (Sandown):**

ARTHUR ORCHARD.



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# ANNUAL REPORT, 1938.

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To the Chairman and Members of the Sandown-Shanklin Urban  
District Council.

Mr. Chairman and Gentlemen,

I have the pleasure to present to you the Annual Report on the Sanitary conditions, and administration in the Combined District, together with the vital statistics for the year 1938.

The information herein set out conforms in arrangement and details with the Ministry of Health's circular 1728.

I am, Gentlemen,

Your obedient Servant,

HAYWARD CARPENTER,

Medical Officer of Health.



## SOCIAL CONDITIONS.

The combined district presents delightful amenities to residents, and holiday-makers alike.

The main occupation is catering for visitors.

## METEOROLOGICAL CONDITIONS.

I am indebted to Mr. C. E. Orchard for the following information:

Sunshine	1937:	1724.2 hours
Sunshine	1938:	1819.2 hours
Rainfall	1937:	35.92 inches
Rainfall	1938:	21.16 inches

## SANDOWN-SHANKLIN SUNSHINE.

### Best 10 Years' Record in England.

An official return of sunshine during the last ten years shows that Sandown-Shanklin has first place among English resorts. The record, which has the authority of the Air Ministry, states that Sandown-Shanklin's aggregate for the ten years is only beaten by that of Jersey, in the Channel Islands.

## STATISTICS, 1938.

Area of Urban District (in acres)	...	...	...	3,509
Population (1931 census)	...	...	...	11,615
Registrar General's estimate of resident population (1938)	...	...	...	10,930
Number of inhabited houses (end 1938) according to rate books	...	...	...	4,397
Rateable Value	...	...	...	£137,998
Sum represented by a penny rate	...	...	...	£547

Live Births.	Total	M.	F.
Legitimate	115	66	49
Illegitimate	2	2	—
Rate per 1,000 of estimated resident population 10.7.			

Still Births.			
Legitimate	2	—	2
Illegitimate	—	—	—
Rate per 1,000 live and still births 16.8.			

Deaths	144	71	73
Crude death rate	...	...	13.2
Deaths from puerperal causes	...	...	Nil
Adjusted death rate	...	...	9.6

### Death Rate of Infants under 1 year.

All infants per 1,000 live births	... ..	25.6
Legitimate infants per 1,000 legitimate live births	...	26.1
Illegitimate infants per 1,000 illegitimate live births		Nil
Deaths from Measles	... ..	Nil
Deaths from Whooping Cough	... ..	Nil
Death from Diarrhoea (under 2 years)	... ..	Nil

## GENERAL PROVISION OF HEALTH SERVICES FOR THE AREA.

### Public Health Officers.

Medical Officer of Health: Hayward Carpenter, M.B., B.S., D.P.H. (Lond.), M.R.C.S. (Eng.), L.R.C.P. (Lond.).

Sanitary Inspector: Henry K. Bridgman, M.R.S.I.

During the year under review there have been no changes in arrangements of health services other than indicated under the following headings.

### Laboratory Facilities.

These are carried out through the County Council's agency, at the new County Hall Laboratory, Newport.

### Ambulance Facilities.

The question of ambulance facilities is under consideration in connection with the A.R.P. scheme under which co-ordination of services is to be arranged.

### Nursing in the Home.

This is carried out through the agency of two respective Nursing Associations, viz.:—

In Sandown: Sandown, Lake, and Newchurch District Nursing Association.

In Shanklin: The Shanklin Nursing Association.

## SANITARY CIRCUMSTANCES OF THE AREA.

### Water.

The water sources are distinct for Sandown and Shanklin areas. The Sandown supply is derived from the River Yar, and Dyer's Well at Newchurch.

(1) Provision is made for sedimentation, mechanical filtration, storage, and sterilization.

(2) Control analyses are done monthly and the analyst reports: "This is a clear and bright water, free from odour and taste, and of a very high degree of bacterial purity. It is a pure and wholesome water suitable for public supply purposes.

The Shanklin Area supply is from springs at Greatwood, Oxlease, Wroxall and Chillerton. The water is of a pure nature and no treatment is necessary.

The Council have acquired the Luccombe Supply, and the substitution of the ram, by pumping machinery will ensure an adequate supply to Luccombe Village.

A new well and storage reservoir is in the course of construction at Chillerton to augment this supply.

#### **Drainage and Sewerage.**

In the Sandown area the raw sewage is discharged into the sea on receding tides.

The Shanklin sewage is subjected to septicisation in storage tanks, and the effluent discharged at all states of the tide.

A scheme of joint sewerage for the two towns has been carefully considered and adopted by the Council.

#### **Rivers and Streams.**

The River Yar passes through the district. It is a small winding sluggish stream. Pollution of this river is in certain respects unavoidable, but every endeavour is being made to avoid preventable pollution.

#### **Non-notifiable Infectious Diseases.**

From the weekly returns of head teachers of the number of absences from non-notifiable infectious diseases it will be seen that Measles was prevalent during the year.

Measles	...	...	167
Chicken Pox	...	...	4
Whooping Cough	...	...	31
German Measles	...	...	—
Ringworm	...	...	8
Scabies	...	...	1
Influenza	...	...	—
Mumps	...	...	—
Impetigo	...	...	—
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#### **Sanitary Inspection of the Area.**

Details are appended at the end of this report by the Sanitary Inspector.

#### **Smoke Abatement.**

No nuisance from this cause has arisen in this district.

#### **Swimming Pools.**

One private pool is in existence. A continuous filtration and chlorination plant maintains the purity of the sea water supplied.

#### **Schools.**

The Sanitary condition and water supply of these is satisfactory.



Infectious Disease.

Twenty cases of infectious disease were notified during the year. It will be noted that 16 of these were notifications of scarlet fever.

AGE AT DATE OF NOTIFICATION.

Age				Smallpox	Scarlet Fever	Diphtheria	Enteric Fever	Puerperal Pyrexia	Pneumonia	Erysipelas	Polioencephalitis
Under 1	...	...	...	-	-	-	-	-	-	-	-
1 and under 2	...	...	...	-	-	-	-	-	-	-	-
2	..	..	3	...	...	-	-	-	-	-	-
3	..	..	4	...	...	-	-	-	-	-	-
4	..	..	5	...	...	-	1	-	-	-	-
5	..	..	10	...	...	-	7	-	-	-	-
10	..	..	15	...	...	-	5	1	-	-	-
15	..	..	20	...	...	-	-	-	-	-	-
20	..	..	35	...	...	-	2	-	1	1	-
35	..	..	45	...	...	-	1	-	-	-	-
45	..	..	65	...	...	-	-	-	-	-	-
65 and over	...	...	...	-	-	-	-	-	-	-	-
Totals				...	...	-	16	1	-	1	1

Disease	Cases Admitted		
	Total Cases Notified	to Hospital	Total Deaths
Smallpox	...	...	...
Scarlet Fever	...	...	...
Diphtheria	...	...	...
Enteric Fever	...	...	...
Puerperal Pyrexia	...	...	...
Pneumonia	...	...	...
Erysipelas	...	...	...
Poliomyelitis	...	...	...
Ophthalmia Neonatorum	...	...	...
Totals	...	...	...

TUBERCULOSIS.

At the beginning of the year there were 50 cases on the Register. During the year, 18 new cases, including two transferred from the mainland, were added to the register, one old case

which was lost sight of returned, five cases were transferred from other areas within the Island and one old case which had left the Island returned. This made a total of 75 cases in the district during the year. Of these, five died, seven left the district, four recovered, one was lost sight of and in three diagnosis was not confirmed, leaving 55 on the register at the end of the year. Of these, 42 were pulmonary and 13 were non-pulmonary.

There was also one death of a case which had not previously been notified as suffering from tuberculosis (one female pulmonary).

		NEW CASES					DEATHS				
		Pulmonary.		Non-Pulmonary		Total.	Pulmonary.		Non-Pulmonary		Total.
Age	Periods	M.	F.	M.	F.		M.	F.	M.	F.	
0	— 1	...	-	-	-	-	-	-	-	-	-
1	— 5	...	-	-	-	-	-	-	-	-	-
5	— 10	...	-	-	1	1	-	-	-	-	-
10	— 15	...	-	-	-	-	-	-	-	-	-
15	— 20	...	-	1	1	2	-	-	-	-	-
20	— 25	...	1	1	-	2	-	-	-	-	-
25	— 35	...	2	3	-	5	-	-	-	-	-
35	— 45	...	2	-	-	2	1	-	2	-	3
45	— 55	...	1	1	1	3	-	-	-	-	-
55	— 65	...	-	-	-	-	-	2	-	-	-
65	and over	...	1	-	-	1	-	1	-	-	-
Totals		7	6	2	3	18	1	3	2	-	6

# Housing.

1. Inspection of Dwelling Houses during the year.					
1.	(a)	Total number of dwelling houses inspected for housing defects (under Public Health or Housing Act)	...	...	71
	(b)	Number of inspections made for the purpose	...	...	171
2.	(a)	Number of dwelling houses (included under sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations	...	...	16
	(b)	Number of inspections made for the purpose	...	...	36
3.		Number of dwelling houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	...	...	2

4.	Number of dwelling houses (exclusive of those referred to under the preceding sub-head) found not to be in all respects reasonably fit for human habitation	43
2.	<b>Remedy of Defects during the Year without Service of formal Notices:—</b>	
	Number of defective dwelling houses rendered fit in consequence of informal action by the Local Authority or their officers	36
	Informal notices. Outstanding at 31st December, 1938	8
3.	<b>Action under Statutory Powers during the Year:—</b>	
(a)	Proceedings under sections 9, 10 and 16 of the Housing Act, 1936:—	
(1)	Number of dwelling houses in respect of which notices were served requiring repairs	1
(2)	Number of dwelling houses which were rendered fit after service of formal notices:	
(a)	By owners	1
(b)	By Local Authority in default of owners	0
(b)	Proceedings under Public Health Acts:—	
(1)	Number of dwelling houses in respect of which notices were served requiring defects to be remedied	3
(2)	Number of dwelling houses in which defects were remedied after service of formal notices:—	
(a)	By owners	3
(b)	By Local Authority in default of owners	0
(c)	Proceedings under sections 11 and 13 of the Housing Act, 1936:—	
(1)	Number of dwelling houses in respect of which representations were made	2
(d)	Proceedings under Housing Act, 1936 (Section 12):—	
(1)	Number of separate tenements or underground rooms in respect of which Closing Orders were made	Nil

(2) Number of separate tenements or underground rooms in respect of which Closing Orders were determined, the tenement or room having been rendered fit ... ..	Nil
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**4. Housing Act, 1936. Overcrowding:—**

(a) 1. Number of dwellings overcrowded at the end of the year ... ..	7
2. Number of families dwelling therein ...	7
3. Number of persons dwelling therein ...	49
(b) Number of new cases of overcrowding reported during the year ... ..	Nil
(c) 1. Number of cases of overcrowding relieved during the year ... ..	3
2. Number of persons concerned in such cases	21

## Sanitary Inspector's Report.

Public Health Department,  
Town Hall, Shanklin.

**To the Chairman and Members of the Sandown-Shanklin Urban District Council.**

Gentlemen,

I beg to present my Annual Report for the Year ending December 31st, 1938.

Housing Statistics as required by the Ministry (Circular 1728), appear as part of the Report of the Medical Officer of Health.

Details of work done, together with observations thereon, follow in the report under their respective headings.

During the past year time has been devoted to work of an emergency nature, and in consequence, Public Health activities have, to a certain extent, been curtailed.

### **SANITARY INSPECTIONS.**

**1.—HOUSING:—**

Premises inspected ... ..	71
Number of inspections ... ..	171
Inspections re Infectious Disease ... ..	30
Inspections re Non-notifiable Disease ... ..	6
Disinfections carried out (all cases) ... ..	29
Inspections re Verminous conditions ... ..	7
Number of rooms disinfested (all cases) ... ..	23



## IMPROVEMENTS EFFECTED.

	Found Remedied	
Accumulations ... ..	1	1
Defective walls and ceilings ... ..	4	4
Defective floors ... ..	2	2
Defective or no spouting ... ..	1	1
Rooms in need of cleansing ... ..	18	18
Dampness ... ..	7	7
Defective roofs ... ..	5	5
Defective sink waste pipes ... ..	1	1
Defective doors, frames and cills ... ..	2	2
Defective boilers ... ..	1	1
Defective flues ... ..	1	1
Defective firegrates and stoves ... ..	1	1
Defective water fittings ... ..	5	5
Insufficient and defective ashbins ... ..	19	19
Rubbish dumps abolished ... ..	1	1

### Drains and Water Closets:—

Defective drains ... ..	3	3
Drains not properly intercepted ... ..	3	3
Defective inspection chamber covers ... ..	1	1
Defective closet doors ... ..	1	1
Defective closet pans ... ..	3	3
Defective closet connections ... ..	2	2
Defective seats and risers ... ..	3	3
Defective closet floors ... ..	1	1
Defective soil and ventilating pipes ... ..	2	2
Defective closet walls ... ..	1	1
Defective or no flushing apparatus ... ..	5	5
Dirty water closets ... ..	1	1
Additional closets provided ... ..	2	2

**Note.**—This table shows defects found in houses capable of remedy at reasonable expense under the Housing or Public Health Acts, but does not include the defects at the two houses Represented.

## 2.—INSPECTION AND SUPERVISION OF FOOD:—

### (a) Slaughter House:—

1. Number of visits to slaughter houses ...	671
2. Informal notices ... ..	3
3. Slaughter houses cleansed and limewashed ...	4
4. Number of carcasses inspected ... ..	1,537



# ANALYSIS. Carcases Inspected and Condemned.

	Cattle	Cows	Calves	Sheep	Pigs
Number killed (if known) ... ..		—		—	—
Number inspected ... ..	3	0	251	499	1556
<b>All Diseases except Tuberculosis:—</b>					
Whole Carcases condemned ...	0	0	0	1	2
Carcases of which some Part or Organ was condemned ... ..	0	0	3	6	19
Percentage of the number inspected affected with Disease other than Tuberculosis ... ..	0	0	1.19%	1.55%	1.34%
<b>Tuberculosis only:—</b>					
Whole Carcases condemned ...	0	0	0	0	0
Carcases of which some Part or Organ was condemned ... ..	0	0	0	0	145
Percentage of the number inspected affected with Tuberculosis ... ..	0	0	0	0	9.31%

## (b) Butchers' Shops:—

1. Number of visits ... ..	551
2. Number of carcases inspected ... ..	772
3. Unsound meat surrendered:—	
Beef ... ..	202 lbs.
Veal ... ..	25 lbs.
Pork ... ..	102 lbs.
Tinned Liver ... ..	30 lbs.

## Tuberculosis only. Parts of organs condemned:—

Pigs' heads ... ..	91
Pigs' plucks ... ..	41
Pigs' mesenteries ... ..	60
Pigs' intestines ... ..	60
Pigs' spleens ... ..	6
Fore-quarter of pork ... ..	1
Side of pork ... ..	1

## All Other Diseases. Whole carcases condemned:—

Carcase and organs of 1 Sheep	Uremia
Carcase and organs of 1 Pig	Septicaemia
Carcase and organs of 1 Pig	Fever

Parts of Organs condemned:—

Head	1	Abscess		
Livers	7	Cirrhosis		
Plucks	6	Parasitic 4, Pneumonia 2		
Kidneys	2	Cystic		
Hearts	2	Inflammation		
Total number of Carcasses inspected				2,309

(c) **Other Food Shops and Stores:—**

1. Inspections	...	...	...	...	97
2. Notices	...	...	...	...	3
3. Unsound food surrendered:—					
Fish	...	...	...	...	234 lbs.
Jam	...	...	...	...	14 lbs.
Dried fruit	...	...	...	...	30 lbs.
Canned foods	...	...	...	...	371 tins

Diseased and Unsound Food surrendered:

1 ton 4 cwt. 0 qr. 27 lbs.

Invaluable assistance has been rendered by the Surveyor (Mr. T. Josey), in arranging for the prompt removal and destruction of unsound food.

### 3.—FACTORIES:—

#### FACTORIES ACT.

#### INSPECTIONS.

Premises	Number of		
	Inspections	Written Notices	Occupiers Prosecuted
<b>Factories</b> with mechanical power ... ..	10	3	0
<b>Factories</b> without mechanical power ... ..	1	1	0
Total ...	11	4	0

#### DEFECTS FOUND.

Particulars	Number of Defects		
	Found	Remedied	Prosecutions Instituted
Want of cleanliness ...	2	2	-
Overcrowding ... ..	-	-	-
Unreasonable temperature ...	-	-	-
Inadequate ventilation ...	1	1	-
Ineffective drainage of floors	-	-	-
Sanitary Conveniences:			
{ Insufficient	-	-	-
{ Unsuitable or defective	2	1	-
{ Not separate for sexes	-	-	-
Total ... ..	5	4	-

#### 4.—SHOPS ACT, 1934 (Ventilation, Temperature and Sanitary Conveniences):—

1. Inspections	...	...	...	...	...	...	22
2. Informal notices	...	...	...	...	...	...	5
3. Statutory notices	...	...	...	...	...	...	0
4. Defects and contraventions dealt with:—							
(a) Ventilation	...	...	...	...	...	...	0
(b) Temperature	...	...	...	...	...	...	4
(c) Sanitary Conveniences	...	...	...	...	...	...	2

The request to provide and maintain a reasonable temperature in various shops, has focused attention on the difficulty of interpreting the intentions of the legislature, and enforcing this section of the Act with any degree of equality.

It would be of the utmost assistance to all, if definite regulations were issued, bearing in mind the varying conditions existing in shops carrying on different trades.

#### 5.—INFECTIOUS DISEASE AND DISINFECTION:—

1. Visits	...	...	...	...	...	...	...	59
2. Action taken:—								
(a) Cases enquired into	...	...	...	...	...	...	...	30
(b) Houses disinfected after notifiable disease (excepting Tuberculosis)	...	...	...	...	...	...	...	20
(c) Houses disinfected after non-notifiable disease	...	...	...	...	...	...	...	6
(d) Houses disinfected after Tuberculosis	...	...	...	...	...	...	...	3
(e) Loads of bedding disinfected after notifiable disease (excepting Tuberculosis)	...	...	...	...	...	...	...	27
(f) Loads of bedding disinfected after Tuberculosis	...	...	...	...	...	...	...	1
(g) Loads of bedding destroyed after Tuberculosis	...	...	...	...	...	...	...	2
(h) Notices excluding contacts from day school	...	...	...	...	...	...	...	2
(i) Library and other books (exposed to infection) destroyed	...	...	...	...	...	...	...	4
3. Number of Patients admitted to Isolation Hospital	...	...	...	...	...	...	...	24

#### 6.—CAMPING:—

1. Number of sites in area which were used for camping purposes during 1938	...	...	...	...	...	...	6
2. Number of camping sites in respect of which Licences have been issued under Section 269 of the Public Health Act, 1936	...	...	...	...	...	...	5

3.	(a)	Camps established in contravention of Section 269	...	...	...	...	...	1
	(b)	Notices requiring removal of camps so established	...	...	...	...	...	1
	(c)	Camps removed following notice by Local Authority	...	...	...	...	...	1
4.		Number of visits to camps	...	...	...	...	...	59
5.		Water closets provided as a result of informal action	...	...	...	...	...	5

## SANITARY CIRCUMSTANCES.

<b>Water.</b>	Main water supply at all camps.
<b>Sanitation.</b>	At four licensed camps, separate water closet accommodation for persons of each sex is available, and at the remaining camp chemical closets have been installed. Washing facilities are provided.
<b>Refuse.</b>	Galvanized iron receptacles are provided for the deposit of refuse. The owners arrange for collection and disposal of all refuse.
<b>Infectious Disease.</b>	It is required that notices shall be given immediately any case of infectious disease occurs, or is suspected. The owners of any camping site, and the occupiers of any moveable dwelling must comply with any instructions necessary to prevent the spread of infection.

## 7.—ERADICATION OF BED BUGS:—

1.	Number of Council Houses found infested, and subsequently disinfested	...	...	...	...	0
2.	Number of other houses found infested and subsequently disinfested	...	...	...	...	4
3.	Loads of bedding and other articles destroyed	...	...	...	...	5
4.	Number of rooms disinfested	...	...	...	...	9

Spraying with a liquid insecticide, and subsequent fumigation is the method employed. In cases of bad infestation, all woodwork (architraves, picture-rails and skirtings) together with areas of defective plaster, were removed to facilitate the process of disinfestation.

It has been found that spraying and fumigation are necessary, the liquids, which kill by contact, being followed by a gaseous agent that acts in the gaseous phase.



To-day, verminous conditions should not be tolerated as an unavoidable nuisance, but, apart from neglect, there exists a natural reluctance on the part of the public to report troubles of this kind.

**ERADICATION OF OTHER VERMIN:—**

1.	Number of Council Houses found infested and subsequently disinfested	...	...	...	...	0
2.	Number of other houses found infested, and subsequently disinfested	...	...	...	...	3
3.	Number of rooms disinfested	...	...	...	...	14

**8.—ACCUMULATIONS, ETC.:—**

(1)	Inspections	...	...	...	...	14
(2)	Notices	...	...	...	...	6

**9.—OBSTRUCTED AND OFFENSIVE DRAINS:—**

(1)	Inspections	...	...	...	...	19
(2)	Notices	...	...	...	...	8

**10.—SWIMMING POOLS:—**

(1)	Inspections	...	...	...	...	1
(2)	Notices	...	...	...	...	0

**11.—POLLUTION OF WATERCOURSES:—**

(1)	Inspections	...	...	...	...	5
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**Note.**—A scheme to obviate pollution of the watercourse is under consideration.

**12.—HEALTH WEEK, 1938:—**

It was intended for this to be held at the same time as the Empire Health Week, but unfortunately, this was prevented by the September crisis.

**CONCLUSION:—**

In conclusion, I desire to put on record my sincere appreciation for the support given by all members, and to the Medical Officer of Health for his invaluable advice and guidance, and to all officials for their willing help and co-operation.

I have the honour to be, Gentlemen,  
Your obedient Servant,

HENRY K. BRIDGMAN,  
Sanitary Inspector.

# Sandown Weather in 1938.

—:o:—

The following report and statistics on the weather experienced in Sandown during 1938 have been compiled by Mr. C. Orchard, Meteorological Observer to the Sandown-Shanklin Urban District Council.

The year on the whole was fine and bright, with its usual long sunny days. Bright sunshine recorded was well above the average. A few rather stormy days with winds at gale force were experienced, and snow fell heavily in December. The temperature was mild throughout the year, and there were fewer N.E. winds during the winter months.

**Sunshine.** The registered sunshine totalled 1819.2 hours, being well above the average, and some 84.9 hours above that registered in 1937, and contrasting with 2141.2 hours in 1933 and 1543.60 hours in 1932. The sunniest month was June with 260.2 hours, and the longest day's sunshine 15.1 hours was recorded on the 21st of the same month. There were forty-one sunless days, fewer by twenty-three than in the previous year.

**Rainfall.** The total amount for the year was 21.16 inches—much below the average, and, with the exception of 18.75 inches recorded in 1921, the least registered during the past thirty-four years. There were fifty-nine days with 0.01 to 0.03 inch and 108 days with 0.04 inch or more. The heaviest fall in one day was 0.85 inch, measured in November.

**Barometer.** The barometer range was from 1041.9 (30.77) in April to 980.0 (28.94) in January, a range of 61.4 millibars or 1.83 inches. The range for 1937 was 65.7 millibars, or 1.92 inches.

**Temperature.** The highest maximum temperature was reached in August and the lowest minimum in December. The mean yearly maximum temperature was 57.8 degrees and the mean yearly minimum 46.3 degrees. The mean yearly temperature 52.0 degrees, and the mean range 11.5.

## MONTHLY SUMMARY.

### Thermometers.

Month	Bar. Max	Bar. Min.	Hst. Max.	Lst. Min.	Mean Temp.
January	1035.8	980.0	53	32	44.8
February	1036.9	1005.4	55	32	42.5
March	1041.3	1009.6	61	31	48.1
April	1041.9	1016.1	65	33	48.2
May	1027.1	1001.0	66	35	52.0
June	1028.6	1006.8	75	46	59.2
July	1025.1	1003.6	77	48	60.3
August	1024.7	1004.9	82	47	61.3
September	1026.3	1003.8	78	44	59.9
October	1028.0	995.7	64	40	54.2
November	1030.3	985.7	61	35	51.6
December	1029.9	993.8	56	22	42.8

Month.	Total Fall inches.	Rainfall		Mth. Hours.	Bright Sunshine.		Sun- less days.
		Most in a day. Amt.	Date.		Daily. Mean.	Sunniest Days. Hrs.	
January	2.88	.47	14	53.0	1.71	6.7	27 10
February	.93	.23	26	91.2	3.26	8.9	11 9
March	.27	.12	24	195.7	6.31	10.9	19 1
April	.08	.07	30	210.6	7.02	12.0	10 1
May	1.18	.26	29	201.8	6.51	14.6	22 —
June	.31	.14	27	260.2	8.67	15.1	21 —
July	1.56	.39	27	192.3	6.20	14.3	13 —
August	1.48	.37	28	206.6	6.66	13.5	3 1
September	1.48	.31	1	162.6	5.42	10.9	2 1
October	3.99	.80	17	143.8	4.64	9.5	21 3
November	4.63	.85	19	52.3	1.74	6.7	22 5
December	2.37	.32	15	49.1	1.51	7.3	3 10
	<hr/> 21.16 <hr/>			<hr/> 1819.2 <hr/>			

### MONTHLY NOTES.

**January**—with 53.0 hours of bright sunshine, was 8.4 hours less than the corresponding month of last year, and slightly below the average. There were ten sunless days. The 27th with 6.7 hours was the sunniest day. Rainfall on twenty-three days amounted to 2.88 inches, which was about the average. The greatest daily fall, 0.47 inch, was on the 14th. The highest maximum temperature, 53 degrees, and the lowest minimum 32 degrees. Mean 44.8. Winds mainly north west. Snow fell on four days. A wonderful and beautiful display of Aurora was observed on the 25th.



**February**—had 0.93 inch of rain on twelve days—much below the average, and less by 4.76 inches than in the corresponding month of last year. There were nine sunless days, and 91.2 hours of bright sunshine recorded—well up to the average. The highest maximum temperature reached 55 degrees, and the lowest minimum 32 degrees. Snow fell on four days. North-east winds prevailed.

**March**—a bright sunny month, with 195.7 hours of bright sunshine, was well above the average, and some 50.6 hours above the corresponding month of last year. The 19th was the sunniest day with 10.9 hours. There was only one sunless day. Rainfall, 0.27 inch on five days was much below the average. The highest maximum temperature reached 61 degrees. Prevailing winds north-east.

**April**—with 210.6 hours of bright sunshine, was well above the average, and some 65.6 hours above that of the corresponding month of last year. There was only one sunless day. Rainfall on two days amounted to only 0.08 inch, and was the least recorded in any one month during the year—much below the average. The highest maximum temperature reached 65 degrees and the lowest minimum 33 degrees. Mean 48.2. Winds mainly north-east. A fine, dry, sunny month.

**May**—had 201.8 hours of bright sunshine, which was well up to the average. There were no sunless days, and the greatest amount recorded in one day 14.6 hours was on the 22nd. Rainfall on fifteen days amounted to 1.18 inches, rather below the average. The highest maximum temperature reached 66 degrees, and the lowest minimum 35 degrees. Mean 51.5. South-east winds prevailed.

**June**—with 260.2 hours of bright sunshine was the sunniest month of the year, and was slightly above the average. It also had 18 hours more than the corresponding month of last year. There were no sunless days. Rainfall 0.31 inch on seven days, was much below the average. The greatest fall on one day, 0.14 inch, was on the 27th. The highest maximum temperature reached 75 degrees, and the lowest minimum 46 degrees. Mean 59.2. South-east winds prevailed. An ideal month for weather conditions.

**July**—had 192.3 hours of bright sunshine, some 16.3 hours more than the corresponding month of last year, but slightly below the average. There were no sunless days. The sunniest day was on the 13th with 14.3 hours. Rainfall on fourteen days amounted to 1.56 inches—above the average. The highest maximum temperature reached 77 degrees and the lowest minimum 48 degrees. Mean 60.3. A thunder storm was experienced on the 7th. South-west winds prevailed.

**August**—with 206.6 hours of bright sunshine, was 27.8 hours less than the corresponding month of last year, and slightly below the average. Rainfall on eleven days amounted to 1.48 inches—a little below the average. The greatest fall in one day 0.37 inch was on the 28th. The highest maximum temperature reached 82 degrees—(the highest recorded during the year) and the lowest minimum 47 degrees. Mean 61.3 Three rather heavy thunder storms occurred during the month. Winds mainly north-west. Rather a dull month.

**September**—with only one sunless day, and 162.6 hours of bright sunshine—was slightly below that of the corresponding month of last year, and slightly below the average. The heaviest fall in one day, 0.31 inch, was on the 1st. The highest maximum temperature reached 78 degrees and the lowest minimum 44 degrees. Winds mainly west. Rather showery weather between the 14th and 27th.

**October**—with 143.8 hours of bright sunshine, was well above the average. There were only three sunless days. 30.6 hours of sunshine—more than recorded for the corresponding month of last year. Rainfall on nineteen days amounted to 3.99 inches—rather above the average. The highest maximum temperature reached 64 degrees, and the lowest minimum 40 degrees. Mean 54.2. Wind mainly south-west. A fine, mild, sunny month.

**November**—the bright sunshine recorded, 52.3 hours—was much below the average, and some 3.9 hours less than in the corresponding month of last year. There were five sunless days. Rainfall on twenty-two days amounted to 4.63 inches—slightly above the average. The highest maximum temperature reached 61 degrees and the lowest minimum 35 degrees. Mean 51.6. November was the wettest month of the year and had the greatest daily fall, 0.85 inch, on the 19th. West-north-west winds prevailed.

**December**—had only 49.1 hours of bright sunshine—a little below the average. There were ten sunless days. Rainfall—2.37 inches on twenty-two days—was below the average. The highest maximum temperature reached 56 degrees and the lowest minimum 22 degrees—the lowest temperature recorded during the year. Mean 42.8 Freezing point was reached on nine days. Snow fell on seven days. North-west winds prevailed. A very unsettled month.











